Special Issue

Alloys Casting: Materials, Technologies, and Applications

Message from the Guest Editors

Foundry processes are now widely applied for the manufacturing of near net shape products for different applications, ranging from structural or mechanical fields. In order to guarantee the obtainment of highquality cast parts that are able to fulfil the industrial requirements, the alloy has to be properly chosen and treated, and the mold, runners, and gating systems have to be accurately designed. This Special Issue aims at disseminating the most recent developments and research in foundry, dealing with both the metal engineering and casting technologies. Papers on the microstructural and mechanical characterization of castings as well as on the improvement or innovation of alloys and processes are strongly encouraged, especially if compared with conventional ones. As liquid metal preparation, heat treatments and finishing operations are known to affect the final properties of cast parts, studies exploring these topics are welcome. Additionally, the of this Special Issue also appreciate papers dealing with the simulation and modelling of foundry processes.

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. Materials provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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